Sense Anywhere
SIMPLY SMARTER

DATASHEET
PT100 PROBE 01-01-00

SAB TEMPERATURE PT100 PROBE
MEET OUR SMART PT100 PROBE (ULT)

Product Description

This smart probe featuring a digital SenseAnywhere Bus interface has been especially designed to be used in ultra-low temperature environments for monitoring cryogenic applications down to -200°C. The class A wire wound ceramic Pt100 sensor ensures accurate measurements over a wide temperature range. The Pt100 Probe can be calibrated because the electronics in the connector is the instrument used to determine the measured value. This means that only the Pt100 Probe needs to be calibrated, not the AiroSensor model 20-20-43 to which it is connected for reliable measurements.

Applicable in various industries

○ PHARMA   ○ COLD CHAIN   ○ MAPPING   ○ LABORATORY   ○ FOOD

Temperature range

Realtime

Secure data storage

Instant Alarms

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Sensor Type	Pt100 element
Accuracy Class	Class A, (0.15K + 0.002 x |t|)
Temperature Range	-200°C to +200°C
Cable	4-wire, 2mm PTFE cable, 2m long, Temperature range: -200°C to +200°C
Connector/Interface	4-pin SenseAnywhere Bus (SAB) interface Temperature range: -40°C to +70°C
Casing Material Connector	PA (UL 94 V-0)
Diameter Connector	Ø 11.5mm / 0.45 in
Response Time t_{90}	< 5s (in water) < 10s (in air)
Sheath	100mm x 3mm stainless steel
Seal Pot	6mm x 30mm
User Instruction	• The Pt100 Probe should not be bent or dropped • The cable must not be kinked • The Seal Pot may not submerged permanently in water or steam. Only the Sheath is allowed to be submerged in water
Please note that the Pt100 probe has protection class IP67, meaning it is not waterproof.	